V. PORTNER

09/512082

1645

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/512,082

DATE: 09/14/2000
TIME: 12:42:01

Input Set : A:\Sch17332.app
Output Set: N:\CRF3\09142000\I512082.raw

ENTERED

3 <110> APPLICANT: NERI, Dario
4 TARLI, Lorenzo
5 VITI, Francesca
6 BIRCHLER, Manfred
8 <120> TITLE OF INVENTION: SPECIFIC BINDING MOLECULES FOR SCINTIGRAPHY, CONJUGATES
9 CONTAINING THEM AND THERAPEUTIC METHOD FOR TREATMENT OF
10 ANGIOGENESIS
12 <130> FILE REFERENCE: SCH-1733P2
14 <140> CURRENT APPLICATION NUMBER: 09/512,082
15 <141> CURRENT FILING DATE: 2000-02-24
17 <150> PRIOR APPLICATION NUMBER: 09/300,425
18 <151> PRIOR FILING DATE: 1999-04-28
20 <150> PRIOR APPLICATION NUMBER: 09/075,338
21 <151> PRIOR FILING DATE: 1998-05-11
23 <160> NUMBER OF SEQ ID NOS: 34
25 <170> SOFTWARE: PatentIn Ver. 2.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 24
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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39 <210> SEQ ID NO: 2
40 <211> LENGTH: 54
41 <212> TYPE: DNA
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44 <220> FEATURE:
45 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
47 <220> FEATURE:
48 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
49 represent a, t, c, g, other or unknown
51 <400> SEQUENCE: 2 54
52 gagcctggcg gacccagctc atmnnmnnmn ngctaaaggt gaatccagag gctg
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 23
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
63 <400> SEQUENCE: 3 23
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67 <210> SEQ ID NO: 4
68 <211> LENGTH: 60
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence

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72 <220> FEATURE:
73 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
75 <220> FEATURE:
76 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
77 represent a, t, c, g, other or unknown
79 <400> SEQUENCE: 4
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83 <210> SEQ ID NO: 5
84 <211> LENGTH: 24
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
91 <400> SEQUENCE: 5 24
92 acatactacg cagactccgt gaag
95 <210> SEQ ID NO: 6
96 <211> LENGTH: 53
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
103 <400> SEQUENCE: 6 53
104 tcattctcga cttgcggccg ctttgatttc caccttggtc ccttggccga acg
107 <210> SEQ ID NO: 7
108 <211> LENGTH: 47
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
115 <220> FEATURE:
116 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
117 represent a, t, c, g, other or unknown
119 <400> SEQUENCE: 7 47
W--> 120 gtttctgctg gtaccaggct aamnngctgc tgctaacact ctgactg
123 <210> SEQ ID NO: 8
124 <211> LENGTH: 23
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
131 <400> SEQUENCE: 8 23
132 ttagcctggt accagcagaa acc
135 <210> SEQ ID NO: 9
136 <211> LENGTH: 46
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
143 <220> FEATURE:

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144 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
145 represent a, t, c, g, other or unknown
147 <400> SEQUENCE: 9
148 gccagtggcc ctgctggatg cmnnatagat gaggagcctg ggagcc 46
151 <210> SEQ ID NO: 10
152 <211> LENGTH: 21
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
159 <400> SEQUENCE: 10
160 gcatccagca gggccactgg c 21
163 <210> SEQ ID NO: 11
164 <211> LENGTH: 45
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
171 <400> SEQUENCE: 11
172 gcggcccagc atgccatggc cgaggtgcag ctgttggagt ctggg 45
175 <210> SEQ ID NO: 12
176 <211> LENGTH: 55
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
183 <220> FEATURE:
184 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
185 represent a, t, c, g, other or unknown
187 <400> SEQUENCE: 12
188 ggttccctgg ccccagtagt caaamnnmnn mnnmnnttttc gcacagtaat atacg 55
191 <210> SEQ ID NO: 13
192 <211> LENGTH: 24
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
199 <400> SEQUENCE: 13
200 gcggcccagc atgccatggc cgag 24
203 <210> SEQ ID NO: 14
204 <211> LENGTH: 66
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
211 <400> SEQUENCE: 14
212 cccgctaccg ccactggacc catcgccact cgagacggtg accagggttc cctggcccca 60
213 gtagtc 66
216 <210> SEQ ID NO: 15

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Input Set : A:\Sch17332.app
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<211> LENGTH: 62
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: primer
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cc 62
<210> SEQ ID NO: 16
<211> LENGTH: 63
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: primer
<220> FEATURE:
<223> OTHER INFORMATION: "n" at various positions throughout the sequence represent a, t, c, g, other or unknown
<400> SEQUENCE: 16
caccttggtc ccttggccga acgtmnncgg mnnmmnaccm nnctgctgac agtaatacac 60
tgc 63
<210> SEQ ID NO: 17
<211> LENGTH: 56
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: primer
<400> SEQUENCE: 17
gagtcattct cgacttgcgg ccgctttgat ttccaccttg gtcccttggc cgaacg 56
<210> SEQ ID NO: 18
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: primer
<400> SEQUENCE: 18
gatgggtcca gtggcggtag cggg 24
<210> SEQ ID NO: 19
<211> LENGTH: 116
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: H antibody specific for ED-B domain of fibronectin
<400> SEQUENCE: 19
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe
20 25 30
Ser Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

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Input Set : A:\Sch17332.app
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```
                                    40                  45
287          35
289 Ser Ser Ile Ser Gly Ser Ser Gly Thr Thr Tyr Tyr Ala Asp Ser Val
290      50                  55                  60
292 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
293  65                  70                  75                  80
295 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
296                  85                  90                  95
298 Ala Lys Pro Phe Pro Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
299              100                 105                 110
301 Thr Val Ser Ser
302          115
305 <210> SEQ ID NO: 20
306 <211> LENGTH: 14
307 <212> TYPE: PRT
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Description of Artificial Sequence: antibody linker
313 <400> SEQUENCE: 20
314 Gly Asp Gly Ser Ser Gly Gly Ser Gly Gly Ala Ser Thr Gly
315   1               5                  10
318 <210> SEQ ID NO: 21
319 <211> LENGTH: 108
320 <212> TYPE: PRT
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial Sequence: VL antibody
325       specific for ED-B domain of fibronectin
327 <400> SEQUENCE: 21
328 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
329   1               5                  10                  15
331 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
332              20                  25                  30
334 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
335          35                  40                  45
337 Ile Tyr Tyr Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
338      50                  55                  60
340 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
341  65                  70                  75                  80
343 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Thr Gly Arg Ile Pro
344                  85                  90                  95
346 Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
347              100                 105
350 <210> SEQ ID NO: 22
351 <211> LENGTH: 16
352 <212> TYPE: PRT
353 <213> ORGANISM: Artificial Sequence
355 <220> FEATURE:
356 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide formula
358 <400> SEQUENCE: 22
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/512,082

DATE: 09/14/2000
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Input Set : A:\Sch17332.app
Output Set: N:\CRF3\09142000\I512082.raw

L:52 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:52 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:52 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:80 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:80 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:80 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
L:120 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7
L:120 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7
L:120 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7
L:148 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9
L:148 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:148 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:188 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12
L:188 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12
L:188 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
L:242 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:16
L:242 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:16
L:242 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16